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Also admitted in Massachusetts

June 15, 2022

BY HAND DELIVERY & ELECTRONIC MAIL

Luly E. Massaro, Commission Clerk
Rhode Island Public Utilities Commission
89 Jefferson Boulevard
Warwick, RI 02888

RE: Docket No. 5201- Long-Term Contracting for Renewable Energy Recovery Factor-Responses to Record Requests - Set 2

Dear Ms. Massaro:

On behalf of The Narragansett Electric Company d/b/a Rhode Island Energy (“Rhode Island Energy” or the “Company”), enclosed please find the Company’s responses to the Second Set of Data Requests issued by the Public Utilities Commission in the above-referenced matter.

Thank you for your attention to this filing. If you have any questions, please contact me at 401-709-3337.

Sincerely,



Leticia C. Pimentel

Enclosures

cc: Leo Wold, Esq.
John Bell, Division
Service List

**Docket No. 5201 – Narragansett Electric Co. d/b/a Rhode Island Energy –
LTC Recovery Factor Service List updated 6/8/22**

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The Narragansett Electric Company
d/b/a Rhode Island Energy
RIPUC Docket No. 5201
In Re: Rhode Island Energy Long-Term Contracting for
Renewable Energy Recovery Factor
Responses to Commission's Second Set of Data Requests
Issued June 10, 2022

PUC 2-1

Request:

In response to PUC 1-1, the Company explained that it typically bases each contract's Unit Factor on the prior 12 months of generation. However, for contracts without a full year of historical generation, the Company utilizes "the Unit Factor of similar contracts as a proxy." It then explained that this was the case for the Cassadaga Wind facility, which only became operational on July 20, 2021. Please explain why the Company assigned the Cassadaga Wind contract a Unit Factor of 26% when the other 3 wind contracts (Wind Energy Dev. Asset No 42394, Deepwater Wind Asset No 38495, and Copenhagen Wind Farm) have Unit Factors that range from 19% to 45%.

Response:

For Cassadaga Wind, the Company utilized the Copenhagen Wind Farm's Unit Factor because the Units are very similar. Both projects are large wind projects located in New York and deliver power to New England. Offshore wind projects, such as Deepwater Wind, have different Unit Factors from land-based wind projects. In addition, Wind Energy Dev. NK Green LLC is a small Unit and not comparable in size to the two large wind projects in New York.

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PUC 2-2

Request:

For the following set of input assumptions, please recalculate the tables included on pages 2-4 of Attachment 1 to reflect the new assumptions:

- For the Wind Energy Dev. NK Green LLC Asset No 42394 contract, assume that the July-December 2022 MWh output equals the actual July – December 2021 MWh output
- For the Black Bear Orono B Hydro Asset No 68728 contract, assume that the July-December 2022 MWh output equals the actual July – December 2021 MWh output
- For the Copenhagen Wind Farm contract, assume that the July-December 2022 MWh output equals the actual July – December 2021 MWh output
- For the Cassadaga Wind contract, assume that the July-December 2022 MWh output equals the actual July – December 2021 MWh output

Response:

Please see Attachment PUC 2-2 for the requested information.

The Narragansett Electric Company
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The Narragansett Electric Company
d/b/a National Grid
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**Long-Term Contracting for Renewable Energy Recovery (LTCRER)
Illustrative Contract Cost
For the Period July 2022 through December 2022**

Illustrative Six-Month Contract Cost

<u>Unit</u>	Unit Capacity (MW) (a)	Commercial Operation Date (b)	Unit Factor (c)	Illustrative Six-Month Output (MWh) (d)	Contract Price (\$ per MWh) (e)	Illustrative Six-Month Contract Cost (f)
(1) RI LFG Genco Asset No. 40054	32.100	05/28/13	77%	108,260.5	\$153.35	\$16,601,639
(2) Wind Energy Dev. NK Green LLC Asset No. 42394 ¹	1.500	03/01/13	19%	1,059.9	\$133.50	\$141,495
(3) Con Edison Development Plain Mtg House Asset No. 43512	2.000	07/19/13	13%	1,138.8	\$275.00	\$313,170
(4) ACP Land LLC 28 Jacome Way Asset No. 43527	0.500	07/18/13	13%	284.7	\$316.00	\$89,965
(5) Comtram Cable Asset No. 43586	0.499	09/30/13	13%	284.1	\$316.00	\$89,776
(6) CCI New England 500 kW Asset No. 43607	0.498	10/25/13	13%	283.6	\$316.00	\$89,618
(7) Conanicut Marine Services (CMS) Solar Asset No. 43685	0.128	10/21/13	13%	72.9	\$288.00	\$20,995
(8) Black Bear Orono B Hydro Asset No. 68728 ¹	3.958	11/22/13	53%	7,997.6	\$108.75	\$869,759
(9) West Davisville Solar Asset No. 43716	2.340	12/06/13	13%	1,332.4	\$236.99	\$315,765
(10) Forbes Street Solar Asset No. 43762	3.710	12/20/13	13%	2,112.5	\$239.00	\$504,888
(11) CCI New England 181 kW Asset No. 43921	0.181	02/27/14	13%	103.1	\$316.00	\$32,580
(12) 100 Dupont Solar Asset No. 44003	1.500	03/25/14	13%	854.1	\$209.00	\$178,507
(13) 225 Dupont Solar Asset No. 44004	0.300	03/25/14	13%	170.8	\$316.00	\$53,973
(14) 35 Martin Solar Asset No. 44006	0.500	03/27/14	13%	284.7	\$316.00	\$89,965
(15) 0 Martin Solar Asset No. 44005	0.500	03/27/14	13%	284.7	\$316.00	\$89,965
(16) Gannon & Scott Solar Asset No. 44010	0.406	04/29/14	13%	231.2	\$284.00	\$65,661
(17) All American Foods Solar Asset. No. 46721	0.331	10/24/14	13%	188.5	\$284.00	\$53,534
(18) Brickle Group Solar Project Asset. No. 46911	1.084	12/04/14	13%	617.2	\$184.90	\$114,120
(19) T.E.A.M. Inc. Solar Asset. No. 46913	0.182	12/11/14	13%	103.6	\$288.00	\$29,837
(20) Newport Vineyards Solar Asset. No. 46917	0.053	12/15/14	13%	30.2	\$299.50	\$9,045
(21) SER Solar 23 Appian Way Asset. No. 46926	0.052	12/17/14	13%	29.6	\$277.57	\$8,216
(22) Nexamp 76 Stilson Rd. Asset. No. 47020	0.498	02/28/15	13%	283.6	\$194.88	\$55,268
(23) Randall Steere Farm Asset. No. 46998	0.091	03/18/15	13%	51.8	\$299.49	\$15,514
(24) Johnston Solar Asset No. 47357	1.700	08/03/15	13%	968.0	\$175.00	\$169,400
(25) North Kingstown Solar 1720 Davisville Rd.- Asset No. 47487	0.500	10/20/15	13%	284.7	\$190.00	\$54,093
(26) Wilco 260 South County Trail - Asset No. 48664	1.246	08/11/16	13%	709.5	\$219.50	\$155,735
(27) Foster Solar - Asset No. 48774	1.250	09/08/16	13%	711.8	\$205.99	\$146,624
(28) Brookside Equestrian Center No. 48899	1.246	10/19/16	13%	709.5	\$149.90	\$106,354
(29) Deepwater Wind Asset No. 38495	30.000	12/12/16	45%	59,130.0	\$289.74	\$17,132,326
(30) Orbit Energy Asset No. 50057	3.200	08/24/17	13%	1,822.1	\$104.89	\$191,120
(31) Frenchtown Road Solar - Asset No. 50731	1.250	01/30/18	13%	711.8	\$196.00	\$139,513
(32) Copenhagen Wind Farm ¹	79.900	12/27/18	26%	97,930.0	\$85.24	\$8,347,702
(33) Woods Hill Solar Asset No. 49370	1.500	12/26/18	15%	985.5	\$99.49	\$98,047
(34) Hope Farm Solar Asset No. 49029	5.000	12/17/19	18%	3,942.0	\$93.66	\$369,208
(35) Sanford Airport Solar Asset No. 68737	3.702	11/19/20	20%	3,243.0	\$78.95	\$256,035
(36) Cassadaga Wind ¹	18.750	07/20/21	26%	11,555.2	\$76.41	\$882,930
(37) Farmington Solar Asset No. 69786	3.702	10/27/21	18%	2,864.5	\$84.85	\$243,053
(38) Quinebaug Solar No. 69801	3.702	12/28/21	18%	2,864.6	\$89.17	\$255,436
(39) Total				314,492		\$48,380,830

- (a) Commercially operable units
- (b) Start date of commercial operation
- (c) Estimated based on prior average annual generation
- (d) Column (a) x Column (c) x (8,760 ÷ 2) hours
- (e) per PPA. Line (36) blended Peak/Off Peak price per PPA
- (f) Column (d) x Column (e)

Note ¹ - Per Attachment PUC 1-2, Column (f) for highlighted facilities

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The Narragansett Electric Company
d/b/a National Grid
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**Long-Term Contracting for Renewable Energy Recovery (LTCRER)
Illustrative Market Value
For the Period July 2022 through December 2022**

<u>Illustrative Market Value</u>								
<u>Unit</u>	<u>Illustrative MWh Purchased Under Contracts (a)</u>	<u>Market Energy Proxy (b)</u>	<u>Energy Market Value (c)</u>	<u>REC Proxy (d)</u>	<u>REC Market Value (e)</u>	<u>Capacity (f)</u>	<u>Total Market Value (g)</u>	
(1)	RI LFG Genco Asset No. 40054	108,260.5	\$111.00	\$12,016,613	\$37.63	\$4,073,301	\$507,870	\$16,597,784
(2)	Wind Energy Dev. NK Green LLC Asset No. 42394	1,059.9	\$114.26	\$121,098	\$37.63	\$39,878		\$160,976
(3)	Con Edison Development Plain Mtg House Asset No. 43512	1,138.8	\$106.44	\$121,214	\$37.63	\$42,847		\$164,061
(4)	ACP Land LLC 28 Jacone Way Asset No. 43527	284.7	\$106.44	\$30,303	\$37.63	\$10,712		\$41,015
(5)	Comtram Cable Asset No. 43586	284.1	\$106.44	\$30,240	\$37.63	\$10,689		\$40,929
(6)	CCI New England 500 kW Asset No. 43607	283.6	\$106.44	\$30,186	\$37.63	\$10,670		\$40,857
(7)	Conanicut Marine Services (CMS) Solar Asset No. 43685	72.9	\$106.44	\$7,759	\$37.63	\$2,743		\$10,502
(8)	Black Bear Orono B Hydro Asset No. 68728	7,997.6	\$121.33	\$970,321	\$37.63	\$300,911	\$64,444	\$1,335,676
(9)	West Davisville Solar Asset No. 43716	1,332.4	\$106.44	\$141,820	\$37.63	\$50,132		\$191,952
(10)	Forbes Street Solar Asset No. 43762	2,112.5	\$106.44	\$224,854	\$37.63	\$79,483		\$304,337
(11)	CCI New England 181 kW Asset No. 43921	103.1	\$106.44	\$10,974	\$37.63	\$3,879		\$14,853
(12)	100 Dupont Solar Asset No. 44003	854.1	\$106.44	\$90,910	\$37.63	\$32,136		\$123,046
(13)	225 Dupont Solar Asset No. 44004	170.8	\$106.44	\$18,180	\$37.63	\$6,426		\$24,606
(14)	35 Martin Solar Asset No. 44006	284.7	\$106.44	\$30,303	\$37.63	\$10,712		\$41,015
(15)	0 Martin Solar Asset No. 44005	284.7	\$106.44	\$30,303	\$37.63	\$10,712		\$41,015
(16)	Gannon & Scott Solar Asset No. 44010	231.2	\$106.44	\$24,609	\$37.63	\$8,699		\$33,308
(17)	All American Foods Solar Asset. No. 46721	188.5	\$106.44	\$20,064	\$37.63	\$7,092		\$27,156
(18)	Brickle Group Solar Project Asset. No. 46911	617.2	\$106.44	\$65,695	\$37.63	\$23,222		\$88,917
(19)	T.E.A.M. Inc. Solar Asset. No. 46913	103.6	\$106.44	\$11,027	\$37.63	\$3,898		\$14,925
(20)	Newport Vineyards Solar Asset. No. 46917	30.2	\$106.44	\$3,214	\$37.63	\$1,136		\$4,351
(21)	SER Solar 23 Appian Way Asset. No. 46926	29.6	\$106.44	\$3,151	\$37.63	\$1,114		\$4,264
(22)	Nexamp 76 Stilson Rd. Asset. No. 47020	283.6	\$106.44	\$30,186	\$37.63	\$10,670		\$40,857
(23)	Randall Steere Farm Asset. No. 46998	51.8	\$106.44	\$5,514	\$37.63	\$1,949		\$7,463
(24)	Johnston Solar Asset No. 47357	968.0	\$106.44	\$103,034	\$37.63	\$36,421		\$139,455
(25)	North Kingstown Solar 1720 Davisville Rd.- Asset No. 47487	284.7	\$106.44	\$30,303	\$37.63	\$10,712		\$41,015
(26)	Wilco 260 South County Trail - Asset No. 48664	709.5	\$106.44	\$75,519	\$37.63	\$26,695		\$102,214
(27)	Foster Solar - Asset No. 48774	711.8	\$106.44	\$75,764	\$37.63	\$26,781		\$102,545
(28)	Brookside Equestrian Center No. 48899	709.5	\$106.44	\$75,519	\$37.63	\$26,695		\$102,214
(29)	Deepwater Wind Asset No. 38495	59,130.0	\$120.25	\$7,110,442	\$37.63	\$2,224,766	\$53,455	\$9,388,663
(30)	Orbit Energy Asset No. 50057	1,822.1	\$111.00	\$202,248	\$37.63	\$68,557	\$72,960	\$343,765
(31)	Frenchtown Road Solar - Asset No. 50731	711.8	\$106.44	\$75,764	\$37.63	\$26,781		\$102,545
(32)	Copenhagen Wind Farm	97,930.0	\$114.26	\$11,189,104	\$37.63	\$3,684,616		\$14,873,719
(33)	Woods Hill Solar Asset No. 49370	985.5	\$106.44	\$104,896	\$37.63	\$37,079		\$141,976
(34)	Hope Farm Solar Asset No. 49029	3,942.0	\$106.44	\$419,585	\$37.63	\$148,318		\$567,903
(35)	Sanford Airport Solar Asset No. 68737	3,243.0	\$106.44	\$345,184	\$37.63	\$122,018		\$467,202
(36)	Cassadaga Wind1	11,555.2	\$114.26	\$1,320,256	\$37.63	\$434,765		\$1,755,021
(37)	Farmington Solar Asset No. 69786	2,864.5	\$106.44	\$304,897	\$37.63	\$107,777		\$412,673
(38)	Quinebaug Solar No. 69801	2,864.6	\$106.44	<u>\$304,907</u>	\$37.63	<u>\$107,781</u>		<u>\$412,688</u>
(39)	Total			\$35,775,961		\$11,832,774	\$698,729	\$48,307,464

- (a) per Page 2, Column (d)
- (b) The market energy proxy is based on electric futures prices for the Pricing Period and renewable resource generation shapes (output in on peak and off peak hours)
- (c) Column (a) x Column (b)
- (d) REC price estimate based on most recent market information
- (e) Column (a) x Column (d)
- (f) Expected capacity revenue from ISO-NE or counterparty
- (g) Column (c) + Column (e) + Column (f)

**Long-Term Contracting for Renewable Energy Recovery (LTCRER)
Illustrative Above/(Below) Market Cost
For the Period July 2022 through December 2022**

Illustrative Above/(Below) Market Cost

<u>Unit</u>	<u>Illustrative Six-Month Contract Cost</u> (a)	<u>Total Market Value</u> (b)	<u>Illustrative Above/ (Below) Market Cost</u> (c)
(1) RI LFG Genco Asset No. 40054	\$16,601,639	\$16,597,784	\$3,855
(2) Wind Energy Dev. NK Green LLC Asset No. 42394	\$141,495	\$160,976	(\$19,482)
(3) Con Edison Development Plain Mtg House Asset No. 43512	\$313,170	\$164,061	\$149,109
(4) ACP Land LLC 28 Jacome Way Asset No. 43527	\$89,965	\$41,015	\$48,950
(5) Comtram Cable Asset No. 43586	\$89,776	\$40,929	\$48,847
(6) CCI New England 500 kW Asset No. 43607	\$89,618	\$40,857	\$48,761
(7) Conanicut Marine Services (CMS) Solar Asset No. 43685	\$20,995	\$10,502	\$10,493
(8) Black Bear Orono B Hydro Asset No. 68728	\$869,759	\$1,335,676	(\$465,918)
(9) West Davisville Solar Asset No. 43716	\$315,765	\$191,952	\$123,814
(10) Forbes Street Solar Asset No. 43762	\$504,888	\$304,337	\$200,551
(11) CCI New England 181 kW Asset No. 43921	\$32,580	\$14,853	\$17,727
(12) 100 Dupont Solar Asset No. 44003	\$178,507	\$123,046	\$55,461
(13) 225 Dupont Solar Asset No. 44004	\$53,973	\$24,606	\$29,367
(14) 35 Martin Solar Asset No. 44006	\$89,965	\$41,015	\$48,950
(15) 0 Martin Solar Asset No. 44005	\$89,965	\$41,015	\$48,950
(16) Gannon & Scott Solar Asset No. 44010	\$65,661	\$33,308	\$32,353
(17) All American Foods Solar Asset. No. 46721	\$53,534	\$27,156	\$26,378
(18) Brickle Group Solar Project Asset. No. 46911	\$114,120	\$88,917	\$25,204
(19) T.E.A.M. Inc. Solar Asset. No. 46913	\$29,837	\$14,925	\$14,912
(20) Newport Vineyards Solar Asset. No. 46917	\$9,045	\$4,351	\$4,694
(21) SER Solar 23 Appian Way Asset. No. 46926	\$8,216	\$4,264	\$3,952
(22) Nexamp 76 Stilson Rd. Asset. No. 47020	\$55,268	\$40,857	\$14,411
(23) Randall Steere Farm Asset. No. 46998	\$15,514	\$7,463	\$8,051
(24) Johnston Solar Asset No. 47357	\$169,400	\$139,455	\$29,945
(25) North Kingstown Solar 1720 Davisville Rd.- Asset No. 47487	\$54,093	\$41,015	\$13,078
(26) Wilco 260 South County Trail - Asset No. 48664	\$155,735	\$102,214	\$53,521
(27) Foster Solar - Asset No. 48774	\$146,624	\$102,545	\$44,078
(28) Brookside Equestrian Center No. 48899	\$106,354	\$102,214	\$4,140
(29) Deepwater Wind Asset No. 38495	\$17,132,326	\$9,388,663	\$7,743,663
(30) Orbit Energy Asset No. 50057	\$191,120	\$343,765	(\$152,644)
(31) Frenchtown Road Solar - Asset No. 50731	\$139,513	\$102,545	\$36,968
(32) Copenhagen Wind Farm	\$8,347,702	\$14,873,719	(\$6,526,017)
(33) Woods Hill Solar Asset No. 49370	\$98,047	\$141,976	(\$43,928)
(34) Hope Farm Solar Asset No. 49029	\$369,208	\$567,903	(\$198,695)
(35) Sanford Airport Solar Asset No. 68737	\$256,035	\$467,202	(\$211,167)
(36) Cassadaga Wind1	\$882,930	\$1,755,021	(\$872,092)
(37) Farmington Solar Asset No. 69786	\$243,053	\$412,673	(\$169,621)
(38) Quinebaug Solar No. 69801	<u>\$255,436</u>	<u>\$412,688</u>	<u>(\$157,251)</u>
(39) Total	\$48,380,830	\$48,307,464	\$73,365

(a) Page 2, Column (f)
(b) Page 3, Column (g)
(c) Column (a) - Column (b)